Rec^d Febr 27

Colombus (Ohio) 7 Février 1849.

Monsieur le Docteur Engelmann à Saint Louis

En partant de la Suisse au mois de Juillet passé j'ai reçu de M^r Alex^r Braun un petit paquet de plantes à votre adresse. Jusqu'à ce jour ni depuis Newyork ni depuis Boston je n'ai pu vous l'adresser, les messageries n'ayant pas voulu en charger. Une personne d'ici vous le portera jusqu'à Saint Louis, mais comme je ne sais pas exactement votre adresse, il le déposera au bureau des Bateaux à Vapeur où je vous prie de le faire réclamer. Le paquet contient une petite lettre qui vous dira ce que je sais ici à vous annoncer, comme j'ai l'honneur de le faire encore, de mes hautes considérations et de mon dévouement.

Léo Lesquereux

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Rec^d Feb^y 27^th
Ans mars 2^d

Columbus (Ohio). 7^re Février 1849.

Monsieur le Docteur Engelmann — St Louis.

Au mois de Juillet passé, avant de partir de la Suisse, j'ai reçu de M^r Alex Braun le paquet ci-joint. Il vous arrivera bien tard, si tant est qu'il vous parvienne. Vos messageries Américaines sont si bien organisées que de Newyork comme de Boston où je suis resté jusqu'au Novembre, il m'a été impossible de vous expédier ce paquet. Il en a été de même à Colombus où je suis forcé d'avoir recours à la complaisance d'un inconnu pour mettre en route le dit paquet avec un autre à l'adresse de M^r Fr Fury. J'écrirai ou ferai écrire à cet ami beau-frère du Professeur Gaugot de Neuchatel qu'il aille réclamer chez vous ce qui lui est adressé.

Mon nom sans doute ne vous est pas connu, quoique, maintenant du moins je sois exclusivement botaniste. Chassé d'Europe par nos révolutions, attiré à Cambridge par mon ami Agassiz, j'ai fini par me fixer à Colombus où une position fort agréable m'a été offerte par M^r Sullivant le bryologue Américain. Le travail chez lui pour lui depuis quelques années, me laisse trois mois de l'année pour mon compte. Peut-être dans quelques uns de ces excursions, il me sera possible d'aller à St Louis étudier la cryptogamie de vos environs. J'aurai alors l'honneur de faire votre connaissance. — S'il vous était agréable d'avoir des plantes Suisses (phanérogames) & des cryptogames d'Europe, je vous en fournirai avec plaisir ce qui j'ai amené.

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avec moi toute mes collections.

Agréez Monsieur l'assurance de ma très haute considération

et de mon dévouement

Léo Lesquereux

P.S. Si vous recevez le paquet, Monsieur, veuillez me le rendre à
grand service de me l'écrire

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Rec'd Febr. 26th
Ans. March 4th

Columbus. Ohio. 17. Février 1850.

Monsieur!

Vous étiez en droit d'attendre une réponse à la lettre bienveillante que vous avez eu la bonté de m'écrire pour m'accuser réception du petit paquet de M. Alex. Braun. Mais il n'y avait rien dans ma position et mes travaux qui pût être de quelqu'intérêt pour vous & j'espérais toujours que vous me demanderiez les plantes d'Europe qu'il aurait pu vous être agréable de recevoir. Depuis le Nouvel-an 1848 j'ai travaillé les mousses Américaines chez M. Sullivant, cette situation me plaisait, car si je ne gagnais que ma vie, (je n'ai pas besoin d'autre chose) j'avais l'occasion de voir une foule de choses nouvelles et intéressantes et d'apprendre beaucoup. Pendant l'année dernière, j'ai beaucoup parcouru l'Ohio & récolté un grand nombre de plantes, non pas de cryptogames seulement, mais dépt un huit cents espèces de phanérogames le tout assez facilement déterminé avec les ouvrages Américains. J'ai donc en magasin déjà une grande quantité d'échantillons que j'espère envoyer en Europe ou pour mes amis ou pour la vente ca ma situation actuelle va me forcer à chercher des ressources dans une science que j'espérais poursuivre pour la science seule. M. Sullivant après quinze mois de séjour ici n'a plus besoin de moi: ses affaires d'argent réclament tout son tems et il est forcé d'abandonner le projet de publier une Bryologie Américaine, pour le moment du moins. Je tâcherai de faire un peu de commerce d'herbiers, de récolter des plantes pour les vendre & peut être ainsi je vivrai. Mais tout est pour moi beaucoup plus difficile que pour tout autre puisque je suis absolument sourd.

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Dans quinze jours je vais me mettre en route pour visiter le Sud. New-Orléans d'abord puis Mobile et l'Alabama ; puis les Black mountains dans la Georgie et Caroline du Nord. M. Sullivant m'aidera un peu je pense pour ce long voyage d'exploration puisque je recolterai les mousses et les hépatiques pendant mais la meilleure partie des frais sera à ma charge. Votre expérience pour tout ce qui tient aux récoltes et à la vente des plantes en Amérique est grande. Monsieur, je prends donc la liberté de vous demander quelques conseils et quelques directions. Si n'est-ce vous est possible aussi quelques recommandations si vous avez des amis dans le Sud. Si je ne puis faire honneur à vos recommandations par ma science et ma renommée, bien que mon nom ait quelque valeur en Europe surtout pour mes amis, du moins pourrez vous être assuré que j'userai de votre appui avec la plus grande discrétion - Je voudrais que vous eussiez la bonté de me dire si la publication de collections de mousses Américaines par centuries aurait quelque réussite. J'aurais à peu près trois cents espèces provenant de l'Ohio, des White Mountains du Sud à quoi je pourrais ajouter pour ceux qui désireraient les espèces Européennes. Les formerait une collection d'une véritable utilité je crois car toutes les monographies de cryptogames, celles de Mougeot, de Desmazières mes excellents amis, de Bridel Brébisson également n'ont été publiées que par centuries coupées dans tous ; je pourrais au contraire publier la série tout à la fois et par ordre. Les déterminations sont faites avec tout le soin que je crois pouvoir à la possibilité d'une erreur. J'aimerais à publier d'abord ici distribuer gratis comme prospectus un bon catalogue.

Gray vous que je trouverai de l'appui en Amérique pour une œuvre semblable. Je suis arrivé que je recevrai d'Europe; mais ale ne suffit pas. M. Schutteworth & Doumier se chargeront aussi de la vente de mes plantes Américaines en Europe; c'est ce qui m'encourage à entreprendre le voyage du Sud pour amasser des plantes un peu moins communes & plus grandes que celles de l'Ohio dont j'aurai un grand nombre déjà dans ma collection. L'entreprise était non pas profitable, mais suffisante pour me faire vivre & payer mes voyages que je ferai avec autant d'économie que possible, je me déciderai peut être à aller l'an prochain ou plus tard vers la vallée du lac salé chez les Mormons. Les contrées y sont pas encore été explorées pour la botanique. Pardonnez moi, Monsieur, de vous importuner de détails qui n'ont aucun intérêt pour vous. Je sais que vous protégez de tout votre pouvoir les recherches botaniques en Amérique. Je suis persuadé que vous ne refuserez pas votre avis à un confrère de plus et à un compatriote ami d'un grand nombre de vos amis. — L'excellent M. Gray m'a envoyé comme cadeau de Nouvel-an le second volume de son magnifique genera qui m'a fait grand plaisir. Lui et Agassiz m'enverront je pense quelques lettres qui me seront utiles pour mon voyage M. Sullivant dans vous aura envoyé je pense sa nouvelle contribution en mousses où vous aurez un Bryum Lescuriannum à peu près nouveau. Mal gré les longues recherches de botanistes de ce pays, l'année n'a pas été mauvaise pour les récoltes. J'ai découvert en mousses seulement plus de 25 espèces nouvelles pour l'Ohio; cinq ou six nouvelles pour l'Amérique, deux tentes nouvelles. Double phanogame j'ai et plus heureux encore j'ai un herbier

déjà un grand nombre de plantes qui n'avaient pas été vues par les botanistes de l'Ohio ou qui du moins ne sont pas sur leurs catalogues. — Les nouvelles botaniques que je reçois d'Europe sont peu intéressantes. Schimper vient de se marier et ses lettres ne parlent guère que de son bonheur domestique. Il a voyagé et restera probablement le plus actif de mes correspondants et le meilleur de mes amis; nos goûts se rapprochent trop pour que nos cœurs ne soient pas naturellement unis. M. Bunbury lui a perdu sa femme en Espagne l'été dernier. Le rapport à Geneva le dernier et le déménagement. Mougeot se fait bien vieux et arrive à peine à réunir les matériaux pour une 13e centurie. Desmazières travaille toujours ardemment les hypnoïdes avec Montagne; j'n'ai eu aucune nouvelle de Mr. Lenormand ni Brebisson pour qui j'recueille les algues autant que possible. Voilà tout. Du reste j'ai peu de relation avec l'Allemagne où le pivisme je crois est considérablement étranglé par la politique. Vous avez vu que Nees, le vieux patriarche n'était aussi sain dans l'esprit dans sa Prusse avait été représentant dans une des nombreuses chambres prussiennes. Hélas, on ne peut guère regarder l'Europe maintenant sans tristesse que je vive à Paris ou ailleurs, je me sentirai heureux pour moi et ma famille de vivre à l'abri de toutes ces dissensions et de ces débâcles qui ne tarderont pas, j'ai l'avoir un terme. — Je pense partir d'ici le 4 Mai. Si donc, Monsieur, vous avez le bonté de m'adresser une lettre, il faudrait l'envoyer de suite pour qu'elle me parvienne avant que je peut-être l'adresse Post restante à Nouvelle Orléans où je m'arrêterai quelques jours. J'espère une fois en Haute avoir le plaisir de faire votre connaissance personnelle; en tout cas je vous prie de croire que je serai toujours de votre respect votre devoué. Les Lesquereux

Western Horticultural Review II. 533
August 1853 4534

Copied

A new Catalpa

During a visit to the beautiful city of Dayton, when attending the meeting of the State medical society, about June 7th, my attention was attracted by a variety of Bignonia Catalpa then in full bloom, though there I had left in Cincinnati were just showing their buds. I was told that the Was a variety supposed to have originated there. That the fact was not accidental, was very apparent, for the trees were variously situated as to soil and exposure, and the form of the tree, the foliage is larger and finer, of earlier flowers more showy than usual. My kind friend Teale, who has fine specimens in his beautiful city garden has furnished the subjoined note that contains all information respecting the variety, which he has been able to obtain.

Ed.

Gaylo June 13th 1853

D. J. A. Warder - Dear Sir:

During your visit to Dayton you noticed and admired a variety of the Catalpa which is quite common here. We have long known that we had two kinds of this tree, but supposing that they were both cultivated in Cincinnati, and elsewhere we have made no note of the fact. The two varieties differs in several particulars, but the most striking peculiarity consist in the time of blossoming. In our public square where the two kinds stand side by side, under precisely similar circumstances of soil and exposure, the one has been in full bloom for ten days while the other has not yet opened a single blossom. The bark of the young trees of the new kind is also lighter in color, the foliage is of a deep green and more luxuriant, the seed-pods much longer, the form of the tree more upright and compact and the flowers larger and

of a purer white.

We are indebted to Dr. J. Haines for the introduction of this fine variety here. Some years since he noticed two Catalpa trees growing on a farm two miles South of this place and was struck with their superiority to the kind then commonly planted. He procured seeds from these trees and from this source all the fine specimens of this kind which now adorn our city originated. The family who lived on the farm and planted the original trees have since removed from the neighborhood and it is unknown where they obtained them.

Yours truly. Robt. W. Steele.

Copied from Western horticultural review vol III p. 533-534. (Copy in the Ohio State Library at Columbus)

To this I may add that I have sometimes seen in flowers along streams running to the Wabash or to the Ohio river bushy trees of a Catalpa which presented the characters indicated above, large fine flowers, large leaves and an early inflorescence which company it to that of the Catalpa trees which we have at Columbus I conclude as a very marked difference in time compared to the little difference in latitude. This may be the species and I believe that one following the Ohio River, from Evansville up and down for two miles, you might be able to find it there.

L. Leguereux

The word is copied word for word,

for 1879

The name of "Speciosa" is not found here.

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Acc[d] Nov 24th
Ans Nov 29

Columbus O. Nov[r] 22[d] 1858

W. G. Engelmann

Dear Sir. Your copy of the Musci exsiccati has been waiting for you, packed and sealed since about two years. When D. Gray ordered it, he wrote that I should have to keep it carefully till your return from Europe when you would call for it yourself. As I am returned home only yesterday from my explorations in the Rky. Geol. Survey, I did not know before now that you had returned to St Louis.

It gives me great pleasure to hear that your journey to Europe had been gratifying in every way. Schimper wrote me that he had had the pleasure of meeting you.

I truly regret that I am not in position to exchange any plants with

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you now. Being hard pressed by disastrous business this spring, I had to sell every thing which I could spare to make some money. I told therefore my whole collection of phanerogamous plant to the Museum of Toronto and have nothing left but cryptogamous and fossil plants. The study of the mosses and of fossil plant takes all my time; at last all my spare time. If you are interested to geology I can send you a copy of the palaeontological report of Ny for last year and also a catalogue of the fossil plants of America

Very respectfully yours
Léo Lesquereux

I would be glad to hear that you have received the package safely. I give it to Adams Express.

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L. Lesquereux

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GEORGE ENGELMANN HERBARIUM

Rec'd Dec 9
Ans Dec 13

Columbus O. Dec 7th 1858

Dr Engelmann St Louis

Dear Sir —

The pamphlet, Catalogue of American fossil plants of the coal and the palaeontological report of the Survey of Ky. have been mailed to your adress.

In the examination of the fossil plants of the Miocen and Plyocen of Mississippi river, I feel badly the want of a collection of leaves and fruit of trees and shrubs of the south. If you had some friend who would exchange specimens of phaenogamus plants (shrubs and trees) of Texas, Mexico &c: for one of my Musci exsicca ti, you would oblige me to give him my name and to afford me an opportunity of corresponding with him. I would especially like plant or rathe specimen of some tree growing along the shore of the gulf, especially the bares.

Please accept my thanks for your Rund letter. M Sullivant sends his regards. We are both hard at work on the mosses of the U. S. Japan expedition.

Very respectfully yours
L Lesquereux

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Rec: June 25th
Ans Aug 14

Columbus O. June 20th/63

Dr G. Engelmann St Louis.

Dear Sir.

You will please excuse me if I did not before now acknowledge the communication of your very interesting papers collected from the St Louis Transactions and which you had the Kindness to send me. I read them with great pleasure and profit, the botanical part especially. I should have thanked you before now for this Kind attention of yours but I did not find time to put in order the list of the species of mosses collected by Mr Elihu Hall in the Rocky Mts and which I wished to send you. As you have preserved in your Transactions the list of species collected by Dr Carry you may find interesting also to publish the list of mosses from the same explorations. I take the liberty to send it to you. If it does not suit you, please to put it aside as useless.

I do not know if it is to you that I owe the communication of the whole N° 1 vol 2 of your transactions. I received it shortly after your papers. I am indeed sincerely obliged for it. I have to give my grateful acknowledgements to whom it is due.

Very sincerely your's

Léo Lesquereux

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Rec'd Aug 21st

Columbus O. August 19th/63.

Dr Engelman

Dear Sir. You will not find in this letter a satisfactory answer for all the points of your welcome letter; I am sorry for it.

Nearly all the species of Mosses of Mr E. Hall have been collected and published long time ago by Drummond. I mentioned only the few ones which are new for America. And as I remarked in my pamphlet p: 16: "that the mosses now known as belonging to E. North America, including Drummond mosses and those which have been found as far West as the Rocky Mts &c: were about 500 species", I supposed that I had satisfactorily marked what part of our continent was considered in my examination. We know nothing at all of the species of mosses inhabiting the Western slopes of the Rocky Mts and all the country between them Mt and the Sierra-Nevada. — For Mr Hall and I think for Drummond also, the mosses were only of secondary importance and the data furnished by them concerning the habitat of the species are very limited. Moreover

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the Alpine and subalpine species of mosses are in W. Cent N. America the same as in Europe with very few exceptions. In my examination of the California mosses, I supposed only to consider their relation with those of some other countries and I could not enter into detail of distribution concerning the different part of Cent North. United States.

The few supposed new species of mosses of Mr L. Hall have no fruit. The diagnosis can not be completed and as they belong to a Genus, Campylopus, which is already overcharged with such uncertain species, I did not like adding under my authority a number of new names as an incumbrance rather than an advantage to Science. I supposed only that as you had published the catalogues of Dr Gray and Mr Hall phaenogamous plants, you would like to preserve the list of his mosses for the same scientific publication. The list which I sent you is useless to me as I have preserved more detailed memoranda for future use if it is ever needed. Please do not return it.

The results of your researches in the examination of the Conifers is indeed of the greatest interest and value to Science.

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I think as you do that our Conifers were scarcely known till you took them in hand and began a review so much needed and that nobody could make as well as yourself. I deeply regret that neither M. Sullivant nor myself can furnish you with anything which could be useful to you. A few years ago I sold my whole collection of phænogamous plants to the Museum of Toronto College and I have nothing now but more fossil plants and a small collection of ferns and of leaves of American trees, used for comparison with fossil plants of the Tertiary. M. Sullivant has not opened his packages of phænogamous plants since twenty years, I think, and of coniferous species, he has very few if any.

But I am certain that Bolander shall be not only ready but very glad to help you in collecting good specimens of all the California conifers which may be attainable to him. He is a teacher, lives in San-Francisco where he has a remunerative occupation in teaching. He is anxious to be of some use for botanical science. Please write him and give him detailed directions for collecting what you want. You do not need a letter of introduction from me. It would be a mole-hill introducing a mountain. He is very well acquainted with your works and will be proud and happy to get a letter from you. Nevertheless; as I am about writing him, I shall mention

to him what you say. Please adress H. Bolander
San-Francisco Calo

In his last letter he mentioned that he had collected a great many specimens and species of Californian phaenogamous plant which he would like to sell either per set or altogether. I wrote about it to M. Boissier of Geneva with whom you are probably acquainted. Perhaps you could help Bolander in this matter better than I am able to do. Bolander travels on his own account and has already made some good scientific acquaintances in Calo. He intends visiting the Coast range this fall, but I advised him to wait till the spring. He wrote also that a German Gardener travelling for collecting seeds and bulbs anent that the Coast range is not on some of its summits and has there extensive peat bogs. If this is true we may expect from that region a great many new and interesting species, mosses &c.

Allow me to thank you now for your kind letter and believe that I am

very resp.y yours

Léo Lesquereux

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Rec'd Dec 8
Ans Dec 9

Columbus Dec. 5th 66

Dr G. Engelmann St Louis.

Please to inform me if your Juglans
Rupestris from California is a true
Juglans or = Palya. I have the leaves
only of this species and as it agrees
remarkably well with one of our fossil
species of the tertiary and at the same
time with a fossil plant of the same
formation of Europe named by Al. Braun
Juglans Bilinii and by Heer Carya,
I would like to know who is right.
If you can answer this just now and
excuse this urgency I will be much
obliged to you. Very resp. yours

A. Lesquereux

Herbert 406 Pass

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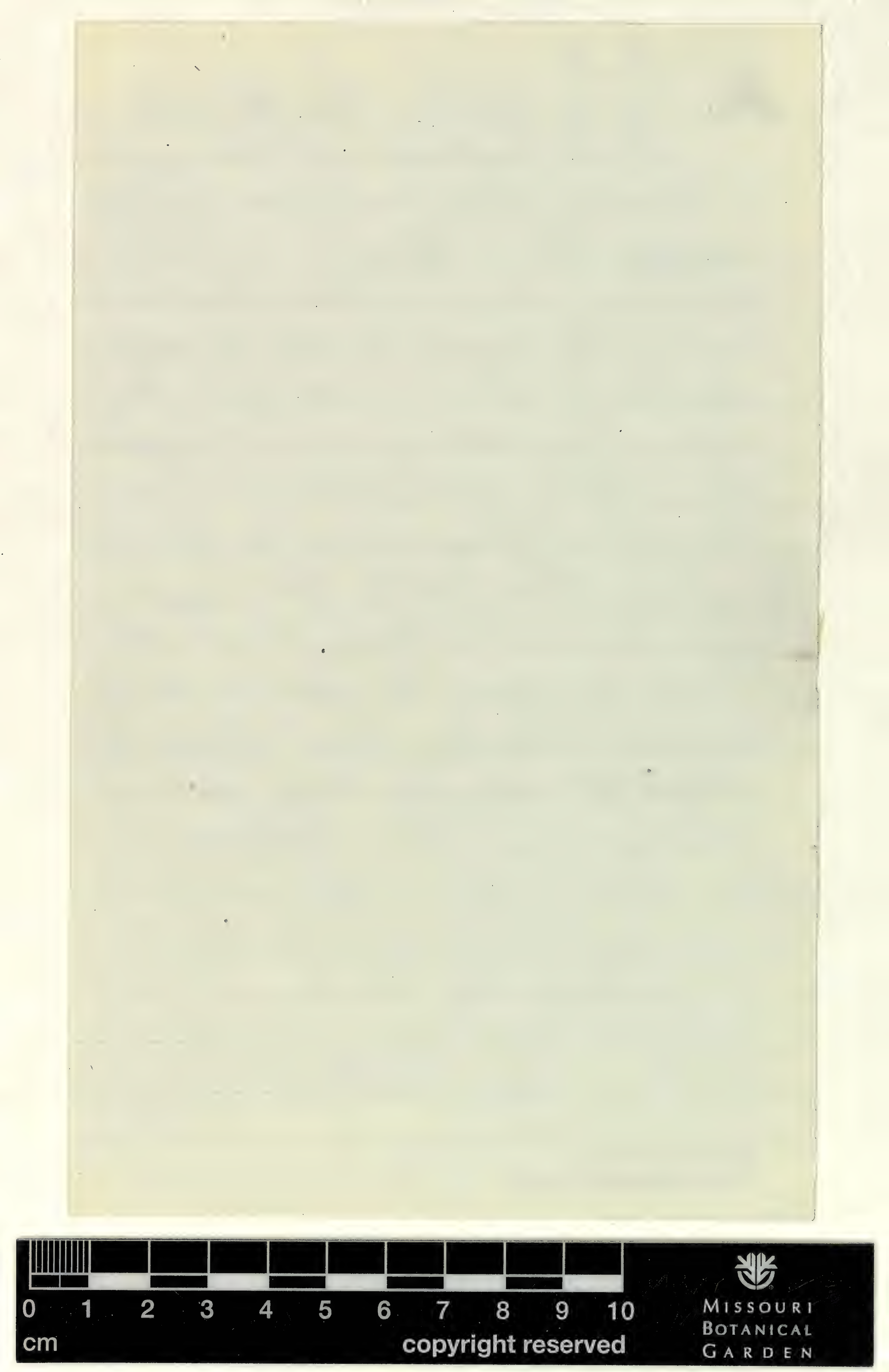

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Recd Febr 18th
Ans Febr 21st Columbus 11th Feby. 67.

Dr G. Engelmann St Louis.

Dear Sir.

This Isoetes of which you speak in your favor of the 11th was collected near the outlet of Round Lake, 5 miles above Bolton village W. Side of Lake George N.Y. (Round) This lake, rather a large pond is already pretty high, in the hills, near the base of Cat mountain and is surrounded by a forest of conifers & maple. Near its outlet there is or was a very small shallow sandy pool where grows Isoetes with Eriocaulon septangulare. I saw only a few plants of it, say perhaps fifty at a distance from three to 5 inches, hence half solitary half gregarious. Depth of water about 5 inches, water very clear, cool on fine whitish sand. I think that I saw the same Isoetes on the borders of Lake Placide (or rather I see in my notes that it is the case) growing with Sagittaria variabilis, Lobelia Dortmanna in water 6 inches at last; & out of water Rhodea Virginica & Ranunculus reptans L. — It was collected the 29th of July 62

If I remember aright, I collected only a few of the smallest (not the largest) speci-mens; but of this, I am not quite certain. As the plant grow along the borders of this shallow pool (connected with the lake) they are only half emerged or sometime in water to 3/4th of their length

I am extremely sorry that I am not able to send you a single specimen of this plant. Want of means and of place forced me in 58 to sell my collection of phænogamous plants to Prof Hincks for the museum of Toronto. I then promised to him that whenever I had an opportunity I would collect interesting phænogamous plants and give them to him. Hence, except a few specimens given to Asa Gray I sent the whole to Toronto. I do not know that there were many specimens. Indeed I believe that I collected few of them. For I had to give my whole attention & collecting more as to the distribution of the trees and to

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not leave time for anything else. I was then travelling with my friend Guyot who was taking barometrical measurements and thus could stop but occasionally. Perhaps Prof Hinckley could furnish you with specimens.

Bolander is as you say an invaluable correspondent. I am now preparing a critical enumeration of the species of mosses of our Western Coast and I think that there will be more than two hundred species of this family due to the research of Bolander. Would you like specimens of the Californian mosses to complete in part your 111 Cs of the Musci exsiccati. You could easily repay this communication by some specimens of Southern and Western trees or shrubs. For I am trying, old as I am, to build again a collection of American Arborescent species for comparison with the fossil plants of our recent formations.

Very truly yours

L. Lesquereux

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I find that I have not answered your
little containing specimen of Juglans Nigra nuts
and two Specie of Carya, (fruit) I wanted
to thank you for the communication
and to ask if you wanted me to return
these fruits! but I did not think proper
to trouble you with a letter for the matter.
If you want the nuts please let me
know and I will return them immediately.

Yours

L Rec July 15

Columbus O. 12e Juillet 73

Monsieur le D. G. Engelmann
St Louis.

Cher Monsieur.

Permettez moi de vous remercier de votre bienveillante communication (Notes on the Genus Yucca.) un mémoire qui me paraît de plus haut intérêt pour la science qu'en me particulier je trouve extrêmement instructif & de grande valeur. Je ne puis aujourd'hui que le parcourir, puisque je ne suis ici que deux jours, en passant à mon tour par les Montagnes Rocheuses. Mais je l'étudierai à mon retour, consciencieusement comme il mérite d'être.

La mort de Sullivant me dégoûte à compagnon de travail pour les mousses, est pour la science comme pour moi même une perte irréparable. Il est dur de marcher seul. Mais ce

12 July '73

n'est pas une raison de se décourager.

Gardez moi (je vous prie toute bienveillance) que je ne perde malheureusement recommandée quelque peu

Croyez moi votre sincèrement, respectueusement dévoué

A. Gerguereau

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Rec Nov 24
Ans March 20

Columbus O. Nov^r 21^th 75

My dear Dr. Engelmann

You have my sincere thanks for your very kind letter of the 18^th ^inst and the communication of the fossil wood of the Carboniferous measures of Missouri. Two of the specimens N. 1 & 2 are as far as I can see now and without cutting and polishing thin lamellæ for microscopic, referable to that Araucaroxylon ~~X~~ Commonin large trunks at the top of the Devonian of Ohio, even in the Waverly Sandstone and in the Subcarboniferous of Indiana. As soon as I have a little time for most of that kind I will complete the examination already begun of all these kind of woods It demands long and careful preparations of specimens and comparative microscopical examination very troublesome to my enfeebled sight. I shall report to you about these specimens as soon as possible. In the meanwhile, if you find or get any more of the same formation, please to reserve them for me. The Coal measure of St Louis Co are the lowest and if I trust to the little said about them

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geological relation, they are sub conglomerate coal measures. It is the Juniger or Juniper Cranvalle or the Judum, where the same kind of Conifers are found in England. Still I believe that as the silicified trunks are very rare in the true coal measures we shall sometimes find remains of that kind of Conifers somewhere. The immense deposits of silicified trunks of Ohio however not a yet given a single specimen referable to Conifers. They all represent ferns and Lycopodiaceous plants. [Ferns only — Etta Cotton!]

What you say of Alex Braun's opinion on the relation of Conifers and Cicadeæ pleases me extremely. This will explain a great many facts about the apparent relation of specimens indifferently referable to Asteropodeæ Cycadeæ or Conifers. I have not received the memoir and do not receive (Berlin Academy proceedings) but I hope that some friend will send it to me. Saporta is now deeply at work upon the Salisburieæ of the Jurassic. Grand'Eury and Brongniart have recognized species of this genus in the Coal. Bye and Bye we shall see some light perhaps in that dark corner of Paleontology.

Have you got the Monography of the Cretaceous flora of the Dakota group? If not, (though I put your name upon the list of distribution), I may send you a copy and would be glad to do it if only

Nov 21 '75

to acknowledge my indebtnes to you for the many favors which you have conferred upon me; for I owe to you the communication of the Transactions of your Academy of Sciences. #1 — I am at work on a review of this Cretaceous flora which by the beauty the originality and the variety of its types becomes every day more interesting.

Your very sincerely & respy

L. Lesquereux

#. Of these memoirs I have read all and made my profit of your most valuable contributions On this subject could you perhaps lend me for comparison one specimen of the largest leaves which you may have in your herbarium and one leaf of Aristolochia reticulata Nutt. with one of A. pelitata Lin or of A. reniformis Willd. — But if any of these deciduata would give you the slightest trouble, please do not lead them and I shall return these specimens immediately

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Rec Jan 20
Ans Feb 10

My dear Dr. Columbus O. Jany 17. 76

I send you Saporta's package unopened, and as I received it. If ever you find time to read it, you will be pleased with this most valuable work. - Saporta says that I should not send my package now. If you have time to send something for him, all right. If not we will wait until the fall. He says in his last letter 20 Dec. 76 that if something could induce you to send him something or to answer his letter it is the idea that he will soon be prepared to send you a series of the Oaks of South France where he has discovered many new and remarkable facts etc. - I have good specimens of Tilia pubescens from M. Meheux of Philadelphia who has the species in cultivation of Dawson I hear nothing. Yours very truly

A. Lesquereux

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POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

COLUMBUS
JAN
18
11 AM
O.

Dr G. Engelmann

St Louis

Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN

Rec^d April 1^st

Ans — 25 Columbus O. 30. Mar 76.

Dr. G. Engelman

St Louis.

My dear Sir.

Many thanks for your kind note and all what you send me. I sincerely regret that you have been sick for a time and hope that you are quite well now against the influence of our abominable season favourable only to the practice of Doctors of strong temper and health.

Though the communications are not needed now, they are not the less acceptable. Thistlochlaena reticulata is a splendid specimen for comparison of leaves of the genus. The large leaves of Lemna polyrhiza will be serviceable sometime to the same purpose and I am very glad to have that Wolffia of which I have heard many time but which I had not seen yet. The wood will be very acceptable to Prof Dawson of Montreal

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who is now preparing a work on the fossil
conifers of the Carboniferous and Devonian
He asked me for specimens if I had any
and among other I sent him the four
packages which I have from you including
the last upon limestone. Of course I made
your name upon the specimens and told
Prof. D. in my letter that the discovery should
be credited to Prof Broadhead and to yourself
but not to me. If you can obtain some more
for him you will confer a true service to Science.
These conifers can not be studied separately. They
must be compared from many specimens and
Prof D. is in position to do the work fully. —
Where pleare have I said that the Ohio
silicified trunks are all referable to Lycopodiaceous?
If this last word is written it is a slip of the
pen for Ferns. The Mahoning (middle coal measures) Sandstone in Ohio
has in it's compounds a mass of finely silicified
trunks of which I have collected hundreds of
specimens varying in diameter from a few inches

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30 Mar 76

to 2 feet. One specimen weighing more than one ton is with my former collection in the Agassiz museum of Cambridge measuring 2 feet in diameter and as much in height. quite cylindrical and so finely silicified that the texture is discernable to the naked eyes. This is the same for all the specimens of which the silicification is perfect. Now, in all these materials, I scarcely found one or two specimen referable to Sigillaria or Lycopodiaceous. Therefor I should have eagerly and intended to say Ferns. No trace of Coniferous wood has been found as yet about the Millstone grit to my knowledge. But we live to learn and to see. To see and forcibly acknowledge the existence of things which was denied from mere ignorance. At least I speak on my account. We had also never seen neither here nor read in Europe any marine plants in the coal measures. I described one from the base of the formation in Penn.ª long time ago and now I have splendid specimens of three species of Fucoids from two localities of Indiana and from one of Illinois, the three in the coal measures

We have fruits which I consider as of Conifers in all the stages of our Coal measures. Why could or should we not find the wood hereafter in same circumstances? It would be very interesting to know from what geological horizon the specimens lately sent in Limestone have been obtained.

Very respectfully & truly yours

L. Lesquereux

The specimens described by Dawson as Lemna scitata. for the tertiary and for which I denied (comparing) to have large leaves of Lemna are apparently referable to Fistia leaves. You will see this if you care to read about it in the next Annual Report of Dr Hayden now ready and about to be distributed. But you will know better when the flora of the lignite is out. All the plates 65 are engraved and beautifully inked The text may be ready in two or three months if my health keeps good. — I have splendid species and specimens in ferns especially from Dr Clinton. The coal flora of Missouri very rich indeed, but nothing of it was known until now

+ from Dr John A. Britts, Clinton Missouri

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Rec'd April 12th

Columbus O. April 11th 76.

Dr G. Engelmann St Louis.

My dear Sir.

I cut this half leaf from Prof Dawson's last letter, as it gives a good preliminary account of your fossil wood. Whenever yourself or your friend have specimens of this kind please send them to him. He is in this country the best authority for fossil wood. - I love Missouri Carboniferous flora is of the highest interest. Among the specimens communicated by Dr Briggs. some represent new species some other represent old and well known species (as far as species can be known from fossil remains), under new aspect and new characters. I hope therefore that if yourself or your friends you may dispose of specimens you will have the kindness to send them for determination.

Very truly yours

L. Lesquereux

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Rec May 2d Columbus O. May 1th 76

Legislature

Dr G. Engelmann St Louis.

My dear Sir

I sent your specimens to Prof.
J. W. Dawson Montreal, Canada, with
your remarks on the locality and uncertain
geological station. Prof Dawson is a Paleon
tologist, Prof. of MacGill College. He has
published many pamphlets on the fossil
flora, especially Devonian of Canada.
He is in position to easily prepare fossil
wood for microscopical examination and
therefore can do more than myself in that
way. I suppose he would be pleased to have
his determinations published as your purpose.

The fossil plants of the coal of Clinton are
extremely interesting. They represent many
new and also some rare species. If you wish
I may prepare a notice of them for your
Transactions or proceedings as I wish to have
the specimen figured (a number of them are

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already) for the U. S. Coal flora, a work far advanced. I however am not ready with the Clinton plants. Dr Britt will send some more. The list of the specimens which pased my hand is ready. And this you could get it at any time with my remarks and descriptions of new species.

Yes! Brongniart is dead. I cannot say that he was great for science, he did not do much of late. He sathed me specimens and informations sometimes but long time ago and never answered my inquiries or the determination of specimens sent to him for comparison. But I regret him sincerely. Saporta of Aix tables this place in science. He is as learned as Brongniart and a very great worker — That is right about three fourths of the Sandstone (middle Carboniferous of Ohio) only read „mostly ferns and very few Cycadeoideous plants"; perhaps Sigillaria, perhaps Rhytidodendron the fragments being seldom-

May 1. '76

-ticated and not yet analyzed by microscopical anatomy.

Yours very truly

L. Lesquereux

I corresponded also with Prof G. M. Dawson an excellent Geologist and from his letters a very amiable man. I do not know any of them personally

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Rec'd July 5th
Ans. P.C. Same day

Columbus July 3rd 76.

D. G. Engelmann — St Louis.

My dear Sir.

I was just about writing to you yesterday when I received your Card. To-day I have your papers, notes on Agave and the Oaks of the U.S. I desired to thank you for the preparation and publication of these memoirs in the Trans. of the Acad. of Science which I have received one week ago. I read them with the greatest interest, especially the oaks and consider them as important documents to Botany. Your distribution of the oaks and your remarks on their characters clear the very difficult subject and will certainly help greatly American botanists in their determination of the species. A near friend of mine and now, after Brongniart's death, the Botanist best acquainted with fossil plants, Count Saporta of Aix would be delighted to have a copy of your paper on the Oaks. He has in cultivation

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most of our American arborescent species and is a thorough student of our living plants. I will therefore take the liberty of sending to him the copy of your memoirs, if you have no objection. Should you like to send him one yourself, his adress is M.r le Comte de Saporta, Ain, Bouches du Rhone. He has requested me many times already to procure for him good specimens of Tilia pubescens Ait. which Gray says is a var. of T. Americana while Saporta considers it as a good species from specimens seen in the museum of Paris. I have asked it of some friends and never got any thing but poor deformations of T. Americana. It is cultivated, for I saw it in plenty of trees in the Park of Brooklin but I was not allowed to take even a small branch of it: Have you any specimens to spare? I sent you a separate copy of my Report to Hayden for 1874. (dont 1876). It has a review of the

July 3 '76

Cretaceous plants of the Dakota group, with descriptions and figure of some new types. I may send a copy of the same to the Academy but I know that they get the whole Reports of Dr Hayden

Very sincerely yours

L. Lesquereux

I sent the specimens of fossil wood to Dawson but never heard a word of acknowledgement. If you wish to send a copy of your papers to Sapporo, please let me know

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GEORGE ENGELMANN HERBARIUM

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Rec. Oct 26
Ans Jan 7

Columbus O. 12th Oct 76

My dear Dr.

In a former letter Saporta writes me that he had acknowledged to you receipt of your memoir and that perhaps you would have something to send him with the specimens which I may have got this year for him. I have very few. But if you send something for that kind friend I will forward the whole immediately.

In a later letter and in regard to a copy of her flora of Maximieux upper tertiary; which I got a double by mistake, and which I wanted to pay, he says that I should present it to you if you will accept it from him. Shall I send it? It is still packed and ready for Express. — I suppose that you are now returned from your exploration for the Raccoon and Scroll out Mr.

12 Oct '76

but do not suppose that you have found much there at this time of year. The mountains are very rich and beautifull in April and May. At last they were in 1850 when I visited them. There was then an abundance of mosses especially Sphagna interspersed with Sarracenia Species etc. But of this you know better than myself Please let me know if you have - now or may have at a later time something for Export.

Most truly yours

A. Leconte

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Rec'd Jan 5th
Ans Jan 7

Columbus O 3d Jany 77.

Dr G. Engelmann St Louis.

Dear Sir.

A few months ago, I took the liberty of writing you concerning a Copy of the pleocène flore of Manimieu by Saporta. This copy had been sent to me by mistake or a double as I had one already and Count Saporta requested me to offer it to you in token of his high regard & your worth. It is possible that engrossed with researches on the present flora you do not care for any work on vegetable palæontology and do not wish to incure any obligation for a book on this subject. You would oblige me very much to let me know by a few words if I have to dispose of this work or a way different from what is desired by Count Saporta.

Very respectfully yours,
L. Lesquereux

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Rec- Dec 20
Ans Jan 1879

Columbus Dec 18th 79

My Dear Dr. Engelmann

Excuse me for writing in pencil for
I'll dine. Very tired of sketch 4 age 2 (74) if
disappears? and I'll more I shoulds suddenly
and have to keep in my bed too often. Digestion
is poor, stomach does not respond anything, if
ever slightly changed, even if I eat a piece of
meat. Bowels act in time of [illegible]
chills etc. for days. Darkening has been another
[illegible] and mostly right eye sometimes. What
is that? since my second [illegible] 1848 I have
had several spells of cold fever but never had
[illegible] something about [illegible] but me
[illegible] know what I should do. If there [illegible]
[illegible] already 71 years old eye and [illegible]
[illegible] made down, please do not hesitate
to answer. Thanks for the early answer of
[illegible] the [illegible] will be welcome at any time.
If I live the [illegible] cool [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

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Rec'd April 19th,

Columbus O 17th April 80.

Dr G. Engelmann St Louis Mo.

My dear Dr.

I was about writing you to thank you for the Communication of Vol IV N. 1 of th Transac-tions where I found, read and admired that excellent and beautiful Revision of the Pines, when I received a copy of the folio ed. of the work. You know yourself how this memoir on a very difficult subject is valuable to Science and I am sure that every botanist will study it as I shall do with delight. The plates, the descriptions the Typographical work all is perfect. I congratulate you and thank you heartily for this work which goes pair with that of your Cactea. I have only read it but I shall find time to study it very carefully again. About Specimens mentionned in your very obliging letter, please do not trouble you. Your time is too precious for that kind of work. I can wait and for myself, my researches are too unimportant to merit your attention. Should I need some specimen for comparison, I shall take the liberty to ask for them

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17 April 80

Your were kind enough to say that my letters were always well come to you. But I am bound to take that as a complimentary encouragement. Hence I can not write you merely to say something of myself. My health has become somewhat improved. I follow the same kind of diet; milk, and raw beef sometimes a glass of malt punch (under your direction.) I do not know of that ever me much good; but certain it is that I like it much. I also take more exercise and work moderately. The correction of the proofs of the text of the Coal flora tasks much time and the work is slow. I shall however soon be out of the descriptive part and then the printer may go on with less trouble than with descriptions and later references.

May this Letter find you quite well and prepared to continue the publication of those highly valuable monographies which with which you enrich American botany

Ever, warmly and gratefully yours

A Lesquereux

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Ans May 6

Columbus O. 3d May 82.

Dr G. Engelmann St Louis.

My dear Sir.

Allow me to heartily thank you for valuable communications lately received.

Print a copy of your excellent paper on the Isoetes of N. America which I find also in vol. IV. N. 2 of the Transaction of the Acad. of Sci. of St Louis and then for your most valuable note on the female flowers of the Coniferæ in the May N. of the Amer Journ. of Sci. All those matters interest me much on account of the light which they may afford for the dark very obscure study of fossil plant. We have a kind of Isoetes very distinctly exposed in the Carboniferous. The tufts are large. or rather the leaves long, nearly half a foot, cylindrical, only flattened, enlarged at the base and evidently enclosing macrospores. As all is flattened compressed and of course much deformed, a detailed analysis can not be made but the macrospores are distinctly seen at the base of the leaves. This is, of course interesting but does not present any difficulty of identification

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3 May 82

But I have others specimens which thorough with some analogy to Sporter, at least by the cylindrical form of the leaves are a puzzle which I can not understand. The leaves long, 1-2 feet about 3/4 of a centimeter broad by compression are evidently tubulore and as can be seen where the surface coating is taken away they are filled by macrospores. They are seen in bundles at different places all along the leaves. There is no change of dimensions where the macrospores are seen. nothing like the bracteal leaflets where the spores may be axillarely disposed as in Selaginella; nothing but macrospores in immense number. under the parietal tissue of the leaves. If you had some point of affinity to offer for comparison to that kind of fructification, you would greatly oblige me to let me know.

Very gratefully and truely yours

L. Lesquereux.

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